



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Cunningham et al.  
Serial No: 09/543,612  
Filed: April 5, 2000  
For: APPARATUS AND METHOD  
FOR MEASURING THE MASS  
OF A SUBSTRATE

Paper No.:  
Group: 2856  
Examiner: Chapman,Jr.,  
Docket No: DR-308J

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Caley Iandorio

02/13/2002 ASMITH 0000002 090002 09543612

RESPONSE

01 FC:103 36.00 CH  
02 FC:102 168.00 CH

This Response is in reply to the Office Action mailed September 17, 2001 in the subject application. In response to the Office Action, please amend the above-identified application as follows.

AMENDMENT A

In the specification:

Please delete the paragraph beginning on page 10, line 23 and ending on page 11, line 7 and replace it with the following:

In operation, oscillator 20 causes transducer 16 to transmit a wave at a reference frequency in the direction of arrow 42 which wave is received by transducer 18. The wave received by transducer 18 is transmitted to frequency detection device 24 of microprocessor 22. Generally, as long as the mass per unit area of the membrane 14 does not change, the reference frequency input by transducer 16 and received by transducer 18 remains constant. However,